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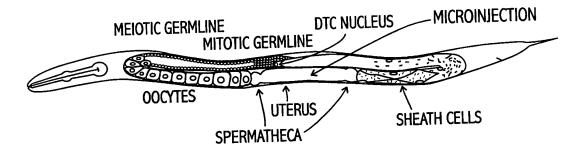


FIG. 1

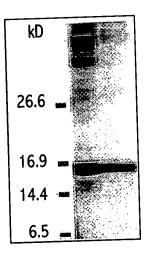


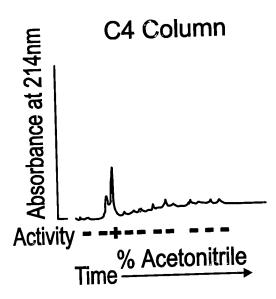
FIG. 2

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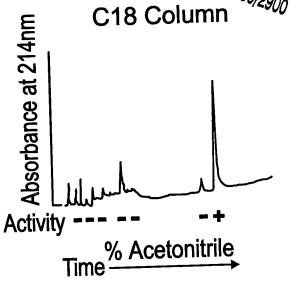


FIG. 3

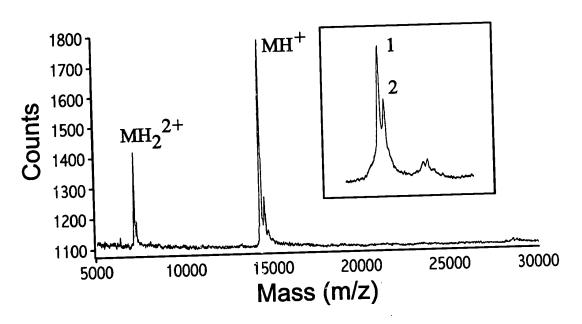


FIG. 4





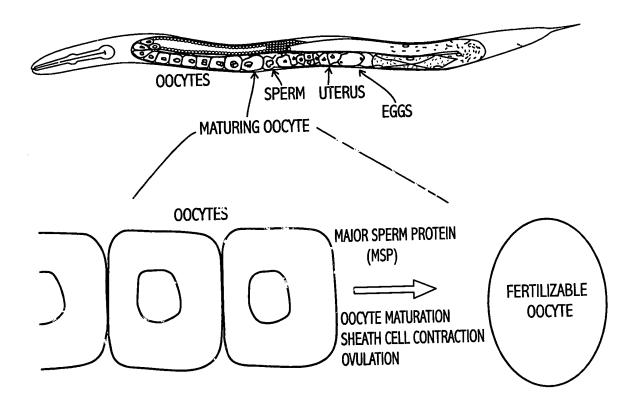


FIG. 5

FIG. 6A FIG. 6B



AQSVPPGDIQTQPWAKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL

MSP-10

ÅQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNNKRLGVDPPCGVLDPKEAVL

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AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL a<u>o</u>svppgdi<u>otopgtkivfnapyddkhtyhikvinssarri</u>gygikttnmkrlgvdppcgvldpkeavl **T**QSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARIGYGIKTTNMKRLGVDPPCGVLDPKEAVL a<u>o</u>svppgdi<u>otopgtkivfnapyddkhtyhikvinssarrigygikttnm</u>kr<u>lgvdppcgvldpkeavl</u> a<u>o</u>svppgdiqiqpgtkivfnapyddkhtyhikvinssarrigygikttnmkrigvdppcgvldpkeav**f** AQSVPPGDIQTQPGTKIVFNAPYDDKHT**D**HIKVINSSARRIGYGIKTTNMKRLGVDPPCGV**F**DPKEAVL AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL a<u>o</u>svppgdi<u>otopgtkivfnapyddkhtyhikvinssarrigygikt</u>tnmkrlgvdppcgvldpkeavl a<u>o</u>svppgdiqiqpgtkivenapyddkhtyhikvinssarrigygikttnmkrlgvdppcgvldpkeavl AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL a<u>o</u>svppgdi<u>otopgtkivfnapyddkhtyhikvinssarri**v**ygikttnmkrlgvdppcgvldpkeavl</u> AQSVPPGDIQTQP**NA**KIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRI**V**YGIKTTNMKRLGVDPPCGVLDPKEAVL AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTTNMKRLGVDPPCGVLDPKEAVL a<u>o</u>svppgdiqiqpgtkivfnapyddkhty**r**ikvinssarrigygikttnmkrlgvdppcgvldpkæavl a<u>o</u>svppgdioto**na**kivenapyddkhtyhikvinssarrigygikttnmkrlgvdppcgvldpkeavl a<u>o</u>svppgdi<u>otofgtkivfnapyddkhtyhikvinssarrigygikttnm</u>kr<u>lgvdppcgvldpkeavl</u> a<u>o</u>svppgdigtopgtkivfnaPyddkhtyhikvinssarrigygikttnmkrlgvdppcgvldpkeavl a<u>o</u>svppgdiqiqpcikivfnapyddkhtyhikvinssarrigygikttnmkrlgvdppcgvldpkeavl a<u>o</u>svppgdi<u>o</u>topgtkivfnapyddkhtyhikvinssarrigygikttnmkrlgvdppcgvldpkeavl ZZZZZZZZZZ $\Sigma \Sigma$ Σ $\Sigma \Sigma \Sigma \Sigma \Sigma$ $\mathbf{\Sigma}$ ΣΣ $\mathbf{\Sigma}$ Σ Σ MSP-113 MSP-56 MSP-59 MSP-53 MSP-55 MSP-63 MSP-65 MSP-76 MSP-78 MSP-79 MSP-81 MSP-19 MSP-33 MSP-38 MSP-40 MSP-45 MSP-49 MSP-50 MSP-51 MSP-57 MSP-64 MSP-77 MSP-31



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FIG. 7

1 50 60 AQSVPPGDI<u>O</u>TQPG<u>T</u>KIVFNAPYDDKHTYHIK**VI**NSSARRIG<u>YG</u>IKTTNMKRLGVDPPCGVLDPKEAVL AQSVPPGDINTQPSQKIVFNAPYDDKHTYHIKITNAGGRRIGWAIKTTNMRRLSVDPPCGVLDPKEKVL AQSVPPGDINTQPGSKIVFNAPYDDKHTYHIKITNAGGRRIGWAIKTTNMRRLGVDPPCGVLDPKESVL 70 80 126 LAVSCDAFAFÇQEDTNNDRITVEWTNTPDGÅAKQFRREWFQGDGMVRRKNLPIEYNE SEQ ID NO:1 MAVSCDTFNAATEDLNNDRITIEWTNTPDGAAKQFRREWFQGDGMVRRKNLPIEYNL SEQ ID NO:11 MAVSCDTFNAATEDLNNDRITIEWTNTPDGAAKQFRREWFQGDGMVRRKNLPIEYNL SEQ ID NO:12 Σ Σ Σ MSP-142 MSP-142 P27439 P27439 P27440 P27440



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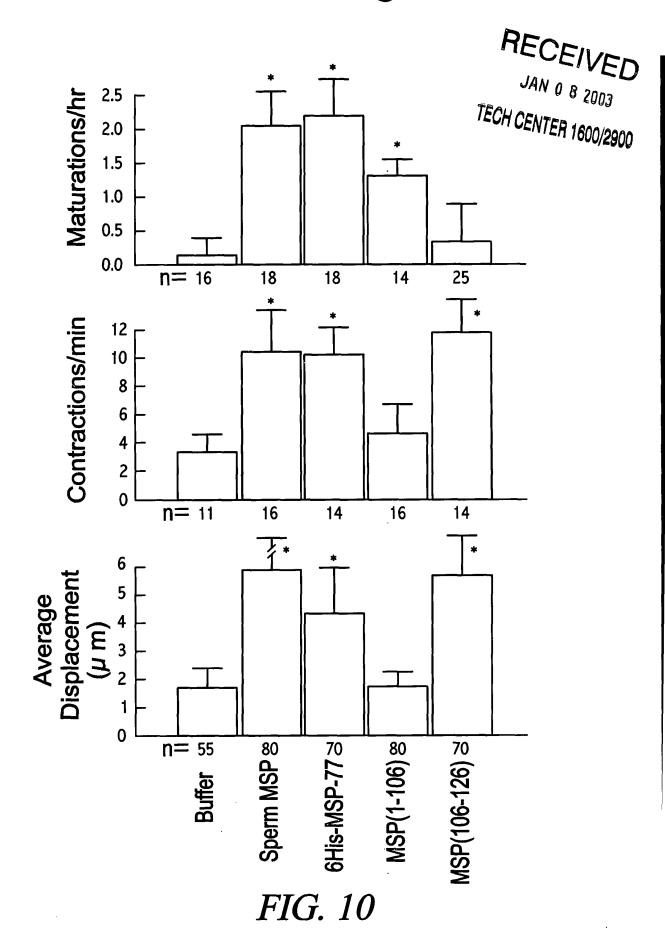
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AsMSPβ REWFQGDGMVRRKNLPIEYNL GrMSP1 LEWFQGDGMVRRKNLPIEYNV GrMSP2 LEWFQGDGMVRRKNLPIEYNV CeMSP142 REWFQGDGMVRRKNLPIEYNP CeMSP33 REWFQGDGMVRRKNLPIEYNP OvMSP1 REWFQGDGMVRRKNLPIEYNL	A c M C D cv	V F	IEOCI)CM\/P	DKNI E	TEVN]
GrMSP1 LEWFQGDGMVRRKNLPIEYNV GrMSP2 LEWFQGDGMVRRKNLPIEYNV GrMSP3 LEWFQGDGMVRRKNLPIEYNV CeMSP142 REWFQGDGMVRRKNLPIEYNP CeMSP33 REWFQGDGMVRRKNLPIEYNP OvMSP1 REWFQGDGMVRRKNLPIEYNL			_				1
GrMSP2 LEWFQGDGMVRRKNLPIEYNV GrMSP3 LEWFQGDGMVRRKNLPIEYNV CeMSP142 REWFQGDGMVRRKNLPIEYNP CeMSP33 REWFQGDGMVRRKNLPIEYNP OvMSP1 REWFQGDGMVRRKNLPIEYNL	AsMSPβ	•	_				
GrMSP3 LEWFQGDGMVRRKNLPIEYNV CeMSP142 REWFQGDGMVRRKNLPIEYNP CeMSP33 REWFQGDGMVRRKNLPIEYNP OvMSP1 REWFQGDGMVRRKNLPIEYNL	GrMSP1	L EV	VFQGI	DGMVR	RKNLF	PIEYN	V
CeMSP142 REWFQGDGMVRRKNLPIEYNP CeMSP33 REWFQGDGMVRRKNLPIEYNP OvMSP1 REWFQGDGMVRRKNLPIEYNL	GrMSP2	LEV	VFQGI	DGMVR	RKNLF	PIEYN	V
CeMSP33 REWFQGDGMVRRKNLPIEYNP OvMSP1 REWFQGDGMVRRKNLPIEYNL	GrMSP3	LEV	VFQGI	OGMVR	RKNLF	PIEYN	V
OvMSP1 REWFQGDGMVRRKNLPIEYNL	CeMSP142	REV	VFQGI	OGMVR	RKNLF	PIEYN	P
	CeMSP33	REV	VFQGI	DGMVR	RKNLF	PIEYN	P
O-MCD2 DELIEOCDCM/DDI/MLDTE//ML	OvMSP1	REV	VFQGI	OGMVR	RKNLF	PIEYN	L
OvMSP2 REWFQGDGMVRRKNLPIEYNL	OvMSP2	REV	VFQGI	OGMVR	RKNLF	PIEYN	L

FIG. 9





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